

REMARKS

Applicants acknowledge with thanks the courtesy extended to their representative by Examiner Crepeau during the previous telephone interview. During the course of the interview, the following language from the Examiner's Answer was discussed:

The instant claims do not contain a recitation of whether the negative electrode is negative during the charging or discharging of the battery. Such a recitation might be helpful in distinguishing the claims.

As Applicants understand that such a recitation would advance prosecution of the application, the pending independent claims have been amended. Withdrawal of the rejection is respectfully requested.

Respectfully Submitted,

Lawrence E. Ashery, Reg. No. 34,515
Attorney for Applicants

LEA/dlm

Enclosure: Version with markings to show changes made

Suite 301, One Westlakes, Berwyn
P.O. Box 980
Valley Forge, PA 19482-0980
(610) 407-0700

The Assistant Commissioner for Patents is hereby authorized to charge payment to Deposit Account No. 18-0350 of any fees associated with this communication.

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Kathleen Libby
Kathleen Libby

VERSION WITH MARKINGS TO SHOW CHANGES MADE

CLAIMS:

16. (As Amended) A lithium polymer secondary battery comprising:

a positive electrode;

a negative electrode which is negative during discharging of the battery;

a gel polymer electrolyte comprising polymer and an organic electrolyte solution dissolving a lithium salt; and

ceramic particles not relating to the charge and discharge reaction of the battery in the negative electrode;

wherein:

the content of the ceramic particles is 0.01 to 10 parts by weight in 100 parts by weight of active substance in the negative electrode;

the particle size of the ceramic particles is 10 microns or less;
and

the gel polymer electrolyte does not comprise ceramic particles.

22. (As Amended) A non-aqueous lithium ion secondary battery comprising:

a positive electrode comprising a lithium transition metal compound oxide;

a negative electrode which is negative during discharging of the battery, the negative electrode comprising an active substance that occludes and releases lithium ions;

a microporous polymer film separator between the positive electrode and the negative electrode; and

a nonaqueous electrolyte solution dissolving a lithium salt;

wherein:

the negative electrode comprises ceramic particles not relating to the charge and discharge reaction of the battery;

the content of the ceramic particles is 0.01 to 10 parts by weight in 100 parts by weight of the active substance in the negative electrode; and

the particle size of the ceramic particles is 10 microns or less.